INDEX TO GLEANINGS IN BEE CULTURE,

FOR THE YEAR 1891.

Adulterators, Prosecuting.549
Air-space 165
Air-chambers v. Chaff 219
Albany Convention 130, 700, 918
Alfalfa in Kansas ...360, 894, 931
Alfalfa, Origin of.....668
Alfalfa-roots.....101
Alfalfa for Sore Throat..... 70
Alfalfa Honey Not Dark.....23
Alum and Snake-bites.....559
Aluminium 288
Ammonia v. Propolis.....266
Ants, Poisoning.....822
Ants, Black.....101, 308
Ants Killing Queens 566
Apiaries, Floating.....357
Apiaries, Manum's.....86
Apiary, Danzenbaker's...589
Apiary, Order in.....927
Apiary, Sespe 771, 775
Apiculture for Women 10
Apiculture, Rosy Hues of...417
Apifuge.....
Appropriation of $500.....622
Aprons.....161, 416, 513
Arizona—King Again.....765
Arizona—Corrections.....766
Arizona.....623, 628
Arizona Honey 22
Artesian Wells of Dakota 965
Artificial Comb.....642
Asbestos Paint.....364
Asbestos for Hives 229
Audubon's Hymn 812
Averages, Jones s.....963
Axtell's Report.....779
Axtell, Mrs., in Keokuk.....13
Bacillus Depilis.....692 775
Baldensperger's Apiary....626
Bamfuzzle, Meaning of.... 941
Barometers 427
Basswood Seeds.....380
Basswood, Growth of.....303
Basswood in Texas.....782
Basswood 129, 223
Bears and Bees 430
Bees on Peavines.....379
Bees of Old World.....365
Bees Eating Chicken.....303
Bees to Colorado, Coe's.....503
Bees at Dr. Miller's.....511
Bees at Troughs.....180
Bees and Colors.....274
Bees Eating Larvæ.....229
Bees at Candy-stands 748
Bees as Fertilizers.....732, 821
Bees Outdoors.....669
Bees Killed on C. E. Frame.665
Bees in a Tree 558
Bees and Candy-makers 566
Bees on Shares.....558, 633, 734
Bees under Siding of House 781
Bees for Fertilization.....705
Bees and Strawberries.....627
Bees Shipped in Ch. Hives..597
Bees Roaring.....85
Bees and Fruit..... 55, 468
Bees do not Reason.....920
Bees and Cherries.....963
Bees Can't Bite.....961
Bees at 1893 Exposition.....949
Bees, Enemies of. 808
Bees, Carrying to Cellar 821
Bees, Stingless.....823
Bees, Punic.....810
Bees, Hardiness of....(Q. B.).173
Bees, Wintering. ....(Q. B.).890
Bees, How Long They Live.850
Bees, Non-propolizers.....230
Bees, Improving.....657
Bees, Profitable.....669
Bees, Moving.....735
Bees, Moving them Home..915
Bees, Red-clover.....782
Bees, Profits of....(Q. B.)...703
Bees, Hanging Out.....707
Bees, Fussing with 618
Bees, Five-banded.....597, 930
Bees, Five-banded Ahead...963
Bees, Confining.....(Q. B.).138
Bees, Setting out ...(Q. B.).333
Bees, Noise of in Cellar.... 313
Bees, Non-swarming 504
Bee, Standard.....132
Bee, Dissection of.....323
Bee, Big Model of 893
Bee-brush, Sayar's.....429
Bee-cellars.....159
Bee-dress for Ladies.....161
Bee-escapes Approved.....587
Bee-escapes in General 305
Bee-escapes a Success ..545, 548
Bee-escape 31 Years Old....430
Bee-escape, Porter 425
Bee-escape, Dibbern.....156, 733
Bee-escape, The First.....892
Bee-line in Cuba 768
Bee-hunt 690
Bee-hunt, Sequel to.....740
Bee-keepers' Union. 71, 166, 549
Bee-keepers' Union Ahead..566
Bee-keeping v. Housework 577
Bee-keeping, Dark Side of..963
Bee-keeping, Migratory.... 24
Bee-hat 631
Bee-paralysis 748
Bee-paralysis Contagious.. 819
Bee-rack, Green's.....735
Bee-stabber 591
Bee-trees in Florida.....633
Beeswax, To Remove.....707
Beeswax, Getting Out..... 15
Beeswax, Purity of.....593
Belts Slipping.....228
Benton, Penny Postage....565
Berry-picker 383
Bertrand, Edouard.....696
Bertrand's Card. 855
Binder, Miller's.....508
Binding Journals.....124
Biography of Ernest.....566
Birds, Plea for 930
Blackberry Acid.....460
Blacks Ahead.....929
Blister-beetles.....379
Boards or Quilts..... 98
Bot-flies 516
Braley's Growl.....226
Bricks on H ves. 89 619
Brood combs, Moldy 963
Brood-frames for 1892.....956
Brood in Sections 820
Brotherhood in Gleanings. 669
Buckwheat.....228
Bugs and Beetles.....591
Bugbee's Growl.....426
Building-paper 59
Bur-combs 471
Burr-combs, To Prevent... 892
Caddice-fly 415
Cage, New Benton 620
Cage, Benton.....606
Cage, Dewey's.....271
California, Rambler off for.550
California, Editor off for.. 828
Candied Honey .....54?
Candy, Wrong End of Cage 891
Cane Sugar.....14
Cans, To Clean.....71
Cans, Square, Criticised.... 28
Carniolans 263
Carp 90, 224
Carpentering, Hints on.....20
Carpenter, Be Your Own....163
Carpenter Bee, or Xylocopa 816
Cases, Rambler's Outside 280
Cases, Outside.....158, 164, 267
Cassava 280
Catarrh, Nasal.....327
Caterpillar, Mammalian....705
Celery, Raising.....635
Cellars, Temperature.....108
Cellaring, Time for.....888
Cells Hexagonal—why.....545
Cells from Wax Cups.....692
Cells Hatched in Pocket....514
Cells, Cutt'g, to Prev. Sw'g.540
Cells, Artificial.....550
Cell-building 556
Cell-cups.....161
Cell-cups, Doolittle's.545, 691, 706
Cell-hatcher, Golden's..... 54
Cell-protetor, West's.....321
Centipedes.....590
Ceresin 538
Chamberlain, W. I.....636
Chapman Plant a Fraud....590
Chicago Convention....924, 933
Chickens Hatched in Hive..474
Chickens—t'other Side.....857
Chicory.....856
China Letter.....587
Chips, Woodchopper's.....767
Cleomella Angustifolia 891
Cloth v. Tin.....227, 230
Cloth for Covers.....280
Clover, Tangle-foot.....514
Clover, Improving.....325
Clover, Chilean.....917
Clovers 138
Cobs 547
Coe's Home.....18
Colonies, Strong.....270
Colonies, Building Weak ...467
Colonies, Building up Weak362
Colonies, Dividing.....618
Colonies, Uniting Weak... 355
Colonies, Weak 778
Colonies Weak in Spring...791
Colorado.....891
Colorado Notes.....811
Columbian Fair 58
Comb Worked by Field B's 540
Comb Honey, Tinker on ..470
Comb Without Logs.....593
Comb Honey and Propolis.. 99
Comb Honey, Shipping.....916
Combs, Dark 98
Combs, Empty 320
Conductivity of Heat.....375
Conductivity of Walls.....207
Contraction, Dayton on....625
Contraction 167
Contraction and C'b Honey.269
Conventions, Miller on.... 739
Conventions or Books (Q. B. 667
Corn-tassels, Pruning.....713
Corn-tassels, Plucking.....283
Corporations v. Individuals.543
Counterfeit Money.....554
Counting the Cost.....864
Covers, Flat 415
Crates 820
Crops in September.....743
Crosswise L. Frame.....214
Cuba.....366
Cups, The Doolittle.....691
Cutworm Moths 549
Cyclopean Bees.....541
Cyprus 844, 876
Dadants, Visit to.....18
Dadant's Langstroth.....288
Dakota, Wintering in.....775
Dayton's, Mrs., Complaint..467
Dayton's, Mrs., Letter.....604
Dead Beats.....388
Detroit Convention.....61
Dilatory Men 543
Diagnosing Colonies.....822
Discouragements.....220
Disease, Nameless Bee.....64
Distances, Fixed, Against..314
Distances, Fixed.....702, 727
Distances, Fixed, in Engl'd 582
Division-boards and Heat..509
Doolittle on Comb Honey...126
Doolittle's Queen-rearing. 550
Doolittle's Home.....693
Dots on Queens 585
Dove'd Hive in Oregon.....101
Down Brakes 169
Dress for Women.....275
Drone Brood, Keeping.....692
Drone Comb.....(Q. B.).854
Drone Comb.....(Q. B.) 631
Drone Comb 655, 767
Drone Comb, Extracting....557
Drones, Purity of.....587
Drones, To Control.....458
Drones Shipped from South.557
Drouth in Wisconsin.....504
Drugs and Medicines.....852
Duty on Queens Removed..551
Duty on Queens 411
Editor in Lansing.....932
Editor in Dakota.....964
Eckermann & Will.....660
Eggs, Fate of.....(Q. B.).962
Eggs, To Cook 282
Enemies of Bees.....764, 808
Epilobium.....930
Ernest in Toledo.....170
Ernest at Dr. Miller's..... 91
Ernest at Marengo..... 56
E-cape, Porter.....811
Escape, Porter Success.540, 557
Escape, Reese, a Success....558
Escape, Window.....561
Escapes, Bee.....817
Escapes, Advantage of.....459
Escapes, Testing.....698
Escapes with Close Frames.592
Escapes a Success.....545, 548
Esparcette.....279
Experim't Stations. (Q. B.). 63
Experts, Village.....675
Extracting-cases.....510
Extractor, Boardman's..... 50
Extractor, Lawson's.....211
Extractor, Osburn's Big....770
Failure in Pennsylvania....633
Fastener, The Hayes.....268
Feeder, Entrance.....561
Feeder-floats.....423
Feeding Before Harvest....229
Feeding to Fill Sections....633
Feeding in Fall.....841
Feeding Outdoors.....552, 817
Feeding in Brood-nest.....597
Ferry's Seed-house..... 62
Fert'g Blossoms, Bees for...561
Field Bees Wax-workers....540
Fixed Distances.....131
Florida Bees to the Rescue..630
Flour from Jap'e Buckw't...420
Foot-notes, Fairness of.....410
Foul Brood from Chilled....379
Foul Brood from Founda'n..341
Foul Brood in Queens.....893
Foul Brood Illustrated.....217
Foul Brood.....160, 700
Foundation ¼ In. Thick....441
Foundation in Br. Chamber.582
Foundation Trade. 137
Foundation, Narrow Sheets.892
Foundation, Fastening..... 553
Foundation, Using Old.....585
Foundation, Full Sheets.... 94
Foundation, Wiring.....131, 466
Foundation, Too Much Used 33
Foundation, Use of..... 61
Frame, Against Hoffman... 96
Frame, Green's..... 730
Frame, Metal-cornered.....473
Frame, Miller on Hoffman..664
Frame, Nash's.....738
Frame, Quinby, Bee-killer..475
Frame, Hoffman, 49, 99, 100, 367, 368, 524, 706, 786, 885
Frame, Hoffman, Defended.315
Frames, Closed-end. 161, 180, 223, 415, 542, 592, 699, 783, 807, 886
Frames, Closed-end, Agai'st.318
Frames, Close-fitt ng.....827
Frames, Fixed...208, 656, 727, 743
Frames, Fixed, Nash's.....737
Frames, Lateral Movement.565
Frames, Spacing.....542
Frames, Sizes of.....875
Frames, Handling..... 372
Frames, Wiring.....809
Frames, Van Deusen.....565
Frame to Adopt.....100
Frames Lengthwise 99
Frames—Green's Decision..729
Friend or Sir.....515

Fruit and Bees..... 55
Fruit and Moths..... 226
Gardening, High-pressure..823
Garden, Making it Pay..... 109
Garden-seeds, Reducing list.106
Getting Used to It..... 594
Getting Used to a Thing....525
Glass for Cases..... 431
Glassing Honey..... 134
Gleanings and Trusts..... 92
Gloves.....170, 209, 416, 511, 513
Gloves in Apiary..... 88
Gloves, Rubber, Bad....364, 380
Gloves, Rubber..... 428
Gloves for Women.....274, 276
Glue for Labels..... 282
Gourds, Flat..... 676
Gourds as Feeders..... 552
Grapes, To Keep..... 961
Grasses, Pollen from 556
Gray, Luther W.....695, 894
Green J. A..... 211
Hair Packing..... 99, 516
Hambaugh's Apiary ...762, 763
Hambaugh's Card 855
Hammocks in Apiary..... 277
Hasty's Apiary..... 957
Heat in Cellar.....(Q. B.).102
Heddon v. Hoffman Frame 807
Hilliard's Apiary..... 878
Hilton's Letter..... 164
Hive, Nonpareil..... 261
Hive, Tinker's..... 215
Hive, Miller's..... 210
Hive, New Dovetailed..... 221
Hive, Hetherington Quinby316, 370
Hive, Dove'd, Larrabee on..697
Hive, Dovetailed 87, 920
Hive, Heddon..... 49
Hive, Dovetailed Chaff..... 12
Hives, Handling 749
Hives, Nucleus..... 892
Hives, Fowl's Cheap..... 309
Hives, Dadant on Large....354
Hives, 8-frame, too Large...558
Hives, To Modify..... 205
Hives, Handling....583, 713, 949
Hives, Double-walled..... 99
Hives, Painting..... 51
Hives, Single-walled..... 59
Hives for Chickens..... 229
Hives Shipped Inverting....502
Hives for Summer..... 433
Hives of Brick..... 597
Hive Records.....362, 422, 423
Hive-cover, Cheap..... 430
Hive-carrier, McFarland's..327
Hive-weights..... 378
Hiver Alley's..... 921
Hoffman Fr. a Bee-killer....418
Hoffman Fr. in Shane Yard.562
Hoffman Frame Discussed..847
Hoffman's History..... 953
Hoffman's Hive..... 407
Holtermann, R. F..... 208
Homespun, Deacon..... 265
Home of Honey-bees, Illu'd.848
Home of the Honey-bees...847
Home Talks criticised..... 411
Honey-plants..... 654
Honey-pails..... 814
Honey-dew.....548, 591
Honey-dew for Winter 768, 814
Honey-gath's Dep'g in Cells 567
Hon'y-producers' Excha'e.548
Honey-packages..... 166
House-apiaries..... 593
Honey-dew Dripping..... 632
Honey-boxes of Paper..... 133
Honey, Evaporating..... 220
Honey, Ton from 10 Hives..230
Honey, Where to Keep..... 887
Honey, Sage, Ripening 663
Honey, To Make it Candy ...513
Honey, Evaporating..... 322
Honey, Candied..... 542
Honey, Cheapening Cost of.547
Honey, Glucose 172
Honey, Shipping Comb. 701
Honey, Buy or Raise?(Q.B.).696
Honey, Glassed..... 134
Honey, When to Sell..... 135
Honey, That Arizona..... 22
Honey, Adulterated..... 61
Honey, Grading 64, 172
Honey by Freight..... 134
Honey from Cacti..... 126
Honey like wet Sugar..... 100
Honey Statistics.....629, 679
Honey Used in Jumbles 642
Honey for Exhibition 332
Honey from Onion..... 428
Honey to be Analyzed 545
Honey Souring.....(Q. B.).780
Horsemint Ahead..... 670
Hot Weather, Hints for.....275
House-apiary Revived.....561
House-apiaries a Success....713
Hubbard Section-former....162
Humbugs and Swindles.....595
Hutchinson's New Book.....567
Hybrids in California..... 506
Ichneumons..... 738
Idea, The New..... 101
Ignotum Tomato..... 705
Imported Q's, Duty Rem'd..551
Indiana Paint Co..... 107
Insurance 748
Introducing with Tobacco .553
Introducing in Spring..... 9
Introducing..... 804
Intro'g 50 Imported Queens.562
Inventions, Names to 556
Italians it Italy Not Pure...842
Italians in Italy, Purity of 918
Italians, Imported 929
Italians, Golden..... 414
Japanese Buckwheat..... 100
Jinrickshа..... 136
Kaweah Colony..... 595
Keeney Wiring..... 654
Keeney Wiring Improved..562
Kegs vs. Cans 96, 134
Keller, Helen.....463, 845
Kentucky, Poor Season.....622
Kerosene vs. Propolis..... 631
Kerosene on Hop-lice..... 822
Kerosene Emulsion.....420, 484
Kerosene-cans for Honey...230
King-birds 658, 728, 811, 814
King birds Favored..... 767
Kuebler's Section-former...590
Labels on Tin 460, 587
Ladders, Swarming 695
Lakeside Electric Co..... 342
Landscape Gardening..... 544
Langstroth and Quinby.....606
Larvæ Carried Out..... 632
Larvæ for Bait..... 668
Laying Workers 30
Legislat'n, Prior'y of Loc'n 555
Leininger's Bees..... 783
Lettuce Disease 68
Lettuce from Washington..858
Linden, Early..... 633
Lime in Fertilizer 931
Lippia Repens 856
Lotteries..... 442
Luck in Bee-keeping 811
Malta..... 462
Malta, Again..... 667
Manum at Barber's..... 16, 85
Manum at Isham's..... 408
Manum's Management..... 332
Manum's Apiary..... 121
Market, A Home..... 55
Mason, Mrs..... 390
McCulloch's Exhibit..... 812
Medals for Bee-keepers.....782
Mercer, L. E., Visit to 546
Metal Ends, The Carr..... 582
Michigan, Trip to..... 897
Michigan Apiaries..... 227
Milk-snakes and Bees 565
Milk vs. Beer..... 930
Miller's Wintering Scheme 965
Millionaires 213, 320
Minnesota, Good Report...633
Minorcans..... 712
Missouri Prospects.....594, 598
Moisture in Cellars 222
Moorings, Our..... 776
Moorings, Drifting from...726
Moths and Frost 458
Moths, Cutworm..... 549
Moth, Large Blue 557
Moth, Tineid. 88
Muslin vs. Tin 160, 172
Mush, Fainted, for Covers. 60
Myriapods..... 550
Nails, Bent-point..... 100
Nail-box 163
Names, Short..... 219
Neighbors, Loving Our..... 363
New Things, Adopting..... 71
Nomenclature, Burdensome 33
Non-swarmers.....504, 769
Norway Letter..... 474
Notes of Travel..... 933
Nubbins, by Cook..... 359
Nubbins 659
Oil-cans for honey..... 101
Onion Culture.....109, 174
Onion, Pearl..... 559
Onion, Bloomsdale Pearl....599
Onion-sets..... 598
Opinions, Changing Our....607
Out-apiaries, Dadant's..... 60
Out-apiaries and Bicycles...524
Out-apiaries, Hauling Home840
Outer Case for Wintering.. 97
Outside Show in Goods..... 98
Packing for the South.....593
Pails for Honey..... 814
Paint v. Whitewash..... 51
Paint for Hives.....864 929
Palm Weevil 407
Paper for Covers..... 460
Paraffine in Cages..... 642
Paralysis of Bees..... 706, 707
Paralysis, Salt for..... 845
Parsnip Seed..... 560
Partnerships..... 34
Pasturage, Artificial..... 130
Patents on Same Thing..... 441
Patents on Hives..... 929
Peppermint for Introduc'g.697
Periodical, Stopping..... 34
Peter Henderson..... 177
Phonograph, The..... 462
Phosphate sacks for Fuel.. 558
Physician, The Family.....919
Physic, Throw to Dogs.....273
Pierce, Thomas 620
Pierce's Wintering Book...952
Planning..... 125
Plant-lice, To Kill..... 420
Plant-lice..... 373
Pollen Substitutes...(Q. B.).818
Pollen, Feeding..... 227
Pollen, and Larval Bees 912
Popcorn 284
Posy-garden in August.....643
Potato, Freeman..... 637
Pound Cage Abandoned.....565
Prices, High..... 828
Priority of Location.(Q.B.).555
Programs, Uses of..... 770
Propolis, To Remove..... 597
Protection or Not..... 905
Protection to Bees..(Q. B.).381
Protection for Bees..... 374
Pumpkins..... 469
Punics Defended..... 884
Punic Bees.....707, 810
Punic Bees in Medina..... 828
Queen to Jamaica..... 642
Queens Across the Ocean.. 970
Queens to Australia..... 72, 633
Queens to Australia Safe...962
Queens with Dots..... 585
Queens in Sections 597
Queens A Protest..... 595
Queens by Mail..... 461
Queens to Sandwich Islands678
Queens from Cell-cups..... 84
Queens, Report of Two.....593
Queens, To Ship 714
Queens, Two in Cell..... 783
Queens, Duty on 389, 411
Queens, No Duty on..... 522
Queens, Rearing of..... 358
Queens, To Clip..... 419
Queens, First Sent by Mail..805
Queens, 2 in Brood-nest.....670
Queens, Imported, by Mail.485
Queens, Introducing 926
Queen, Superseding Old.....815
Queen, Chilled 669
Queen breeders, Rules for..517
Queen-cage, Dixie..... 461
Queen-cups, Doolittle's... 423
Queen-excluders..... 474
Queen-rearing a la Doolittle783
Queen-rearing..... 19, 48
Queen-record, McIntyre's...264
Rainbow, Artificial..... 634
Rambler in New York..... 473
Rambler on Bunker Hill....122
Rambler at Dr. Merchant's. 94
Rambler in Washington....588
Rambler at Pratt's..... 168
Rambler at Finch's 306
Rambler in Medina.....665, 891
Rambler at Vrooman's..... 816
Rambler in Jamestown 731
Rambler in Massachusetts 212
Rambler in Toledo..... 913
Rambler at Flint..... 950
Rambler's Picture..... 206
Reason of Bees..... 888
Record on Hives..... 89
Record, The Brick..... 262
Record-books 512, 594, 741
Record-books, Miss Wilson's857
Record-book.....761, 778
Records on Hives.....422, 423
Red-clover Bees..... 705
Register-boards 64
Regurgitation.....814, 820
Reminiscences of the War 741
Rent for Apiary 101
Repositories, Winter 54
Requeening 598
Restrictor, Dayton's....167, 262
Rheumatism and Stings... 459
Ripley's Ruling..... 894
Road-making 98
Robbers, How Punished ...846
Robbing 817
Rubber for Gloves 230, 232
Rubber on Division-poards.406
Ruling, Ripley's; Bad..... 865
Rural N. w-Yorker..... 828
Russian Bee-book..... 523
Sabbath in France..... 777
Salt for Paralysis.....821, 845
Sashes, Where to Put..... 784
Saw-tables, Home made..... 53
Seat for Apiarist..... 330
Seats for Bee-keepers..... 511
Seats in Apiary..... 619
Secrets, Selling..... 390
Section-folder, Leach's..... 805
Section-folder, Bresee's.... 420
Section-folder, Looft's.... 419
Section-former, Leach..... 891
Section-former, Kuebler's..590
Section-gluer, Philo's..... 261
Section press, Hubbard's..741
Sections, Unfinished. 779
Sections, Wedging 820
Sections, When to Put on ..502
Sections, Removing..(Q. B.).516
Sections, Two-pound..... 134
Sections Parallel to Frame 804
Sections Partly Filled.....804
Sections Sold by the Piece.. 97
Seedsmen, Pies for..... 27
Seeds, To Get Good..... 67
Self-hiver 706
Self-hivers..... 881
Shade for Hives.....157, 619
Shade for Apiary..... 423
Shane Apiary..... 922
Shane Apiary, Again..... 958
Shears, To Sharpen..... 901
Sheils v. Slates..... 228
Shipping case of Paper....459
Shoes in Apiary..... 416
Shrinkage of Covers..... 793
Shucks 659
Silk-moth Larva..... 856
Silk-moth 656
Singapore Coolies..... 135
Smoker, The Clark.....466, 606
Smoker, Hill's New..... 441
Smuts in Wheat..... 855
Snakeroot..... 9
Snakes in China 361
Snakes Swallowing Young 415
Snakes, Poisonous..... 312
Snaky 659
Sneezeweed Honey..... 822
Solar Extractor, Large..... 562
Soldiers of Xenophon..... 892
Solution, Nature of a..... 15
Spaces, Dead-air..... 378
Spacing, Close..... 24, 100
Spacing Frames..... 542
Spanish Needle..... 100
Speed of Machinery..... 33
Spider plant..... 128
Sports in Vegetables..... 68
Sports in Plants..... 672
Spraying Trees, Fatal Case.515
Spraying, Law About .326, 336
Spring Dwindling 99, 260
Staples to Fasten Covers....514
Staples, L. D., Convicted....142
Starters vs. Full Sheets.....632
Starters, Pasting in..... 856
Statistics 486
Statistics for 1891..... 793
Stings, Mrs. Axtell on..... 961
Stings and Rheumatism.306, 889
Sting, Fatal..... 748
Stinging Fatal..... 486
Stingless Bees..... 823
Stocks, To Double..... 893
Stones on Hives..... 552
Stores, for Winter..... 8
Story, Upper, for Cells.....632
Strawberries, The New.....599
Strawberries, To Raise.....671
Strawberries, Selling..... 560
Strawberries, Terry's.....507
Strawberry, Everbearing..860
Stray Straws, Cook on.....325
Sugar vs. Honey for Feed..783
Sugar, Beet, How Made..... 52
Sugar a Recent Invention..370
Sulphuric Acid—Caution...281
Sulphuric Acid to Clarify..642
Sulphuric Acid, Dadant on 212
Sulphuric Acid..120, 655, 702, 714
Sunday Planning 222
Sunnyside, Visit to..... 762
Supers, Half-story..... 880
Supply-dealer, Letter to....925
Swarm in Open Air..... 281
Swarms on Tall Trees..... 631
Swarms, First 670
Swarms, Controlling..... 584
Swarms, Returning..... 821
Swarmer, Golden's..... 666
Swarmer, Spracklen's..... 742
Swarmer, Alley's.....598, 763
Swarming-ladder..... 624
Swarming, Philosophy of. 538
Swarming, To Control..... 704
Swarming, Persistent..... 706
Swarming, Prevention of..260
Swarming, Causes of..... 354
Swarming .....(Q. B.).477
Swarming—Why..... 668
Swarming 356
Swarming .....(Q. B.).928
Swarming Prevented...540, 541
Sweet Clover in Kansas.....380
Tarred Paper..... 707, 855
Taylor, Mahlon, a Fraud....747
Terry, Visit to..... 602
Tin for Covers..... 357
Tobacco for Introducing553, 893
Tomato Seed, Spurious....598
Tools for Gardening..... 478
Top-bars, Depth of..... 424
Top-bars, Thick..... 227
Top-bars..... 59
Top-bars, Tin..... 505
Trade-marks.....218, 549
Trees, Time to Spray..... 309
Trees, Spraying..... 231
Trusts, etc..... 427
Tunis, Letter from..... 96
Turf for Watering Bees on.418
Turnip, Southern Prize.....598
Turnip, Southern Queen....560
T Supers..... 376
Umbrellas in Apiary..... 512
Underdrains, To Find..... 860
Van Deusen Frames..... 665
Ventilation .....(Q. B.) 225
Ventilation .....(Q. B.).278
Ventilation, Bottom..... 64
Vermont..... 878
Vesicaria Nuttallii..... 430
Virgins, Introducing....585, 769
Wanted—A Hive..... 806
Wasps..... 667

Water Cure in England....582
Water Cure, The....183, 272, 329, 360, 377, 412, 413, 414
Water for Bees....856
Water-bugs, Giant....508
Wax v. Honey....279
Wax Secretion 212, 318, 427, 760
Wax Bleaching....816
Wax, Pure, To Tell....475
Wax, To Melt....224
Wax, Rendering....120
Wax, Mineral....538
Wax, Adulterated....538
Weak Col's, Building up....553
Weather, Foretelling the....59
Weeder, The Lang....599
Well, A Dairy....264
Wheat at Chamberlain's....849
Whitewash on Hives....51
Wilson, Miss, at Chicago....960
Winter Case, Our New....673
Winter Cases....374
Winter, Preparing for....857
Wintering, Safest....358
Wintering, Pierce on....952
Wintering in Chamber....25
Wintering in Dove'd Hive. 633
Wintergreen Oil....665
Wire-cloth Bottoms....429
Wiring, Horizontal....877
Wiring, Keeney....621
Wiring, Foster's Plan....505
Wiring with Lamp Heat....783
Woodchopper....308
Workers, Fertile....594
Workers, Laying....210
Wyand, Henry....29
Xenophon's Soldiers....892
Xylocopa....816
Yellow Ocher....929
Yellow Ocher, French....962
Zinc, Excluder....582

INDEX TO ILLUSTRATIONS.

Alley, How he Gets There....168
Alley, Rambler and Pratt Talking Bees....123
Alley's Last Shipment of Queens....123
Anatomy of the Bee....323
Apiary, J. F. McIntyre's....772, 773
Apiary, Hambaugh's....762
Apiary, Doolittle's....693
Apiary, Baldensperger's Jaffa....626, 627
Apiary, Olmstead's....423
Apiary, Isham's....408
Apiary, Greenes, in Winter....158
Apiary, Merchant's....93
Apiary, Joshua Bill's....213
Apiary, The S. E. Miller Plan of....922
Apiary of R. L. Taylor....951
Apiary at the Home of the Honey-bees....923
Apiary of E. E. Hasty....914
Apiary of Dr Mason....913
Apiary of S. Hillard....879
Apiary of A. C. Miller....11
Arrangement of Hives, Miller's....955
Baldensperger's Apiary....626, 627
Basswood, American, Good Representation of....129
Bee Fever, Hard Case of....93
Bee-dress for Ladies....161
Bee-escape for Window....561
Bee-escape....425
Bee-escape, Old....430
Bee-escape, Dibbern's....734
Bee, Anatomical Section of....323
Bees, Plan for Shipping....502
Bees in Siding of House....781
Berries, Machine for Picking....176
Bertrand, Ed., Portrait of....697
Birds, King....658
Boardman's Solar Wax-extractor....50
Bristol Hives....408
Brush, Bee, Sayer's....439
Bunker Hill Monument and the Rambler....122
Cage, Introducing, Miller's....563
Cage, Jenkins' Bee....461
California Apiaries....772, 773
California Bee Fever....551
Candle, Mammoth Wax....(662) 672
Carr's, W. B., Metal Ends for Frames....582
Cellar, Device for Carrying Hives into....327
Cellar, Carrying Bees into....58
Cell-protector, West's....321
Chaff Hive, One-story Dovetailed....(674) 684
Clam Bee-keeper, Rambler's....19
Clover, White; Clover, Red....128
Clovers, The....128
Coe's Mountain Home....18
Colon, To Wash Out....184
Dadant's Out-apiary....60
Dadant, C. P., Portrait of....99
Danzenbaker's Dual Hive....589
Dibble with Spacer....174
Doolittle's Apiary....693
Doolittle's Surplus Arrangement....127
Doolittle's Hobbies....694
Dovetailed Chaff Hive, New....684
Dovetailed Winter Case....683
Dovetailed-hive Apiary at the Home of the Honey-bees....923
Dual Hive, Danzenbaker's....589
Eckerman & Will's Wax-works....670, 671
Elwood, P. H., Portrait of....918
Escape, Bee, Dibbern's....734
Escape, Bee, Porter's....425
Escape, Bee, for Window....561
Escape, Bee, Old....430
Exhibit, Honey, McCulloch & Co....813
Extractor, Reversible....211
Extractor, Electrical....473
Extractor, Seaman's Honey....473
Falconer's Factory....731
Feeder, Mason Jar Entrance....561
Foster's Improved Frame....424
Foundation-fastener, Hambaugh's....763
Foundation-fastener, Hayes'....268
Foul Brood in Combs, Scales....217, 700
Fowl's Hive and Winter Case....310
Frames, Wiring....505
Frames, Fixed, in Norway....474
Frames, Closed-end Quinby....317
Frames, Wiring, Miller's....809
Frames, Foundation, How to Fasten....763
Frames, Fixed, in England....582
Frames, To Manipulate, a la Hatch....573
Frames, Quinby, To Manipulate....371
Frames, To Manipulate....367, 368, 369, 370
Frames, Wiring, Keeney's Improved....562
Frame, New Hoffman....956, 957
Frame, Improved Thick-top....956
Frame, Fixed, Green's....730
Frame, Foster's Improved....424
Gleanings, To Bind....509
Gluing-machine for Sections, Philo's....261
Golden's Swarm-catcher....673
Golden's Queen-hatcher....54
Granulated Honey Packages for....813
Green, James A., Portrait of....311
Green's Fixed Frame....730
Hasty's Apiary....914
Hatch's Record-keeping....89
Hatch on Manipulating Frames....373
Hayes' Foundation-fastener....268
Hexagonal vs. Round Cells....545
Hive, Chaff, King's Proposed....13
Hive, The Nonpareil....215
Hive, Cook's Complete....472
Hive, Hambaugh's....762
Hive, Hoffman....407
Hives, How Dr. Miller Packs....955
Hives, Miller's Arrangement....955
Hives in Groups of Five....959
Hive-records, Morrison's....262
Hive-stand, Heddon....960
Hoe-handle Block....236
Hoffman Hive....407
Hoffman Frame, How to Manipulate....367, 368, 369
Hoffman, J., Portrait of....954
Home of the Honey-bees, Birdseye View of....848
Honey Exhibit, McCulloch's....813
Hotbed Arrangement....784
Hotbed, Cross-section....237
Hubbard Section-former....162
Hutchinson Rousted by Rambler....950
Ice-house Refrigerator, Substitute for....264
Introducing-cage, Miller's....563
Jinricksha....136
Keller's, Helen, Writing....465
Keller, Helen, Portrait of....463, 464
King-birds....658
Ladder, Swarming....624
Ladders, Swarming, Miller's Improved....695
Lettuce, Grand Rapids....858
Leech's Section-former and Foundation-fastener....805
Manum Swarmer....883
Manum's Out-apiaries....86
Mason, Dr., Behind the Bars....913
McFarland's Device for Carrying the Hive....327
Medal of N. A. B. K. A....782
Merchant and Miller Tanking it Out....94
Merchant's Apiary....93
Miller Carrying Hives into Cellar....58
Miller's, A. C., Home....11
Murray & Heiss' Establishment....843
Nail-box, Dr. Miller's....163
Out-apiary, Load of Bees, Green's....736
Out-apiaries, Dadant System....60
Out-apiaries, Manum's....86
Palm-weevil....407
Phonograph Interviewed by Rambler....731
Pierce, Thomas....919
Pratt's Queen-rearing Hive....168
Pumpkin Pies in Prospect....469
Queen-cage, Dewey's Improved Peet....271
Queen-cage, Jenkins....461
Queen-rearing Hive, Pratt's....168
Queen-restrictor, Dayton's....167
Quinby Closed-end Frame Manipulated....317
Quinby Hive, Advantages of....370, 371, 372
Rabbet, Our Improved Tin....957
Rambler at the Home of the Honey-bees....882, 883, 884
Rambler at Murray & Heiss'....843
Rambler and Miller—Tables Turned....551
Rambler in Washington....589
Rambler, The, Portrait of....206
Rambler's Shake with the President....589
Record-keeping of Hives, Morrison's....262
Record keeping, Miller's....422
Record-keeping of Hive, Hatch's....89
Restrictor, Dayton's....167
Reversible Extractor, Lawson's....211
Rheumatism and Stings Illustrated....307
Root's Establishment....848
Salisbury on Rendering Wax....120
Saw-table, Home-made....53
Seat for Bee-keepers....330
Seat for Hive, Hart's....619
Section-former, Kuebler's....590
Section-former and Foundation-fastener....805
Section-gluing Machine....261
Section-lifter, Miller....376
Sections, Up for Market....460
Sespe Apiary....772, 775
Shane Apiary at Home....923
Shane-yard Urchin....884
Shipping Granulated Honey, How to Do it....815
Shipping Bees, Plan for....502
Slates on Hives....960
Smoker, The Scotchman's....212
Solar Wax-extractor....50

Spider-plant 128
Stings and Rheumatism Illustrated 307
Strawberry, Belmont 237
Strimpl's Swarming-ladder 624
Sulphuric acid Wax-rendering 120
Sunday Excursions 883
Swarming-ladders, Miller's Improved 695
Swarm-catcher 673
Syringe for Internal Bathing 184
Taylor's Foul-brood Scales 217, 709
Tineid Moth 88
Tinker's Hive 215, 216
Turning-lathe and Scroll-saw 53
Wagon for Hauling Bees to Out-apiary 735, 736
Wax, Rendering with Sulphuric Acid, Salisbury's 120
Wax, Melting, Vrooman's 816
Wax, Bleaching 670, 671
Wax-works of Ekerman & Will 670, 671
We and I Controversy 815
Webb's Queen-cell Protector 321
Winter Case, Root's Dovetailed 693
Winter Packing, Miller's 955
Winter Cases, Rambler's 280
Winter Case, Fowl's 310
Winter Cases, Green's 158
Winter Case, King's Proposed 13
Wiring Frames 505
Wiring Frames, Miller's Plan 809
Wiring Frames, Keeney 562
Wyand, Henry 29

INDEX TO CONTRIBUTORS.

Adams C, 24; Adams W S, 230 558; Ahlers H C, 432; Aikin R C, 99; Alley H, 226 884 921; Andrews T P, 98 224; Anderson R J, 679; Anderson J, 227; Andrews Rev J, 931; Armacost J B, 432; Arnold A, 707; Arwine E S, 776; Ashby G H, 309; Ashcraft R E 28 380; Ashmead T G, 172; Aspinwall W P, 515; Aspinwall N P, 231 443; Atchley Jennie, 595; Austen Mrs L S, 364; Atkinson J C, 97; Axtell Mrs L C, 13 64 169 277 282 318 331 363 381 467 511 552 779 817 889 926.

Baird A B, 379 598; Baird E J, 124 806; Baker G, 231; Baldensperger P J, 95 365 626 667 742 844 876; Ball W K, 24; Balch Mrs G E, 558; Banks O, 429; Barnes B os, 557; Barnard S W 556; Barber C J, 707; Barber Mrs A J, 101; Barton E D, 820; Barton J F, 231; Bauchamp R E, 931; Bedford I N, 593; Belcher E K, 855; Bell J W, 231; Bell L W, 623; Bell L, 432; Bell N H, 359; Bent Mrs W H, 363; Benting E, 670; Benedict O C 781; Bertrand E, 855; Berry S W, 516; Bianconcini C, 461 856; Billings H A, 443; Bingham T F, 556; Bingham W, 172; Bixby A, 514; Blackmer V V, 632; Bluhm P C, 413; Boal E A, 706; Boardman H R, 50 280; Bonfoey Mrs M A, 416 707; Boynton W A, 847; Braley H C M, 226; Breece, M W, 707; Breece S, 420; Briggs G, 783; Briggs E, 131; Brodie Mrs J W, 99; Brodbe k G W, 546 894; Broomell J H, 22; Brown A C, 893; Brown A S, 443; Brown A F, 338 742; Brown H, 98; Brown L M, 819; Brooks W W, 100; Brooks E S, 101 281; Browder P, 380; Brickell T G, 633; Brubaker D E, 282; Buchan A, 380; Buckmaster S S, 821; Bugbee A C, 426; Bulers J S, 231; Bunch C A, 100; Burr F, 431; Burr J, 231 282; Burr Mrs, 172; Butcher H, 231.

Cadwallader D A, 557; Calvert L C, 9 9; Camp G W, 707; Capehart J C, 557; Case W W, 99 379 592; Case J B, 593; Casteel W, 558; Casselman J R, 678; Chance T H, 443; Chambers L T, 476; Childers J, 705; Childers L, 704; Christal S G, 678; Churchill E P, 24 27 232 236; Cleveland J R 232; Coe O R, 503; Coe A M, 428; Coffin C P, 432 460 705 811; Cole Mrs O, 364; Coleman W, 279; Colton J B, 280; Colville J R, 557; Comstock F S, 459; Cone Mrs M, 416 778 845; Connelly E, 272; Corneil S, 207; Cornell G N, 885; Conry T J, 101; Cook A T, 633; Cook A J, 14 59 88 226 312 318 325 339 359 373 379 407 409 411 415 423 479 484 508 515 541 545 548 549 551 556 557 593 591 659 667 705 742 758 764 808 816 821 822 855 856 891; Corwin S C, 334; Crawford M, 176; Crane A T, 432; Craycraft J, 165 175 227 822; Cromcry R I, 604; Crowell F C, 336; Crowley W J, 430; Crossman Mrs E M, 631; Cummings F A 930; Cullinan W J, 763; Cummins D, 469; Cyphert P R, 1 2; Cox Mrs S D, 228.

Dadant C P, 60 355 475 702 777 782 822; Dadant & Son, 541; Dallas J, 435; Dayton C W, 167 263 625 815 886; Dayton Mrs F A, 483 604; Davis F A, 429; Dewey F H & E H, 271; De Freest L, 633; Devol W S, 783; Dibbern C H, 156 306 753 881; Dimick J A, 82; Dintelmann L F, 93; Dorfman C, 428; Douglass W S, 232; Dove A, 429; Doolittle G M, 8 48 84 136 159 222 226 269 319 356 421 458 502 538 586 618 657 692 726 776 804 850 887 912; Draper A N, 840 915; Droit et Avant, 852; Drumwright W J, 280 431; Dugdale T I, 430; Dunham L G, 475; Dwight H L, 516; Dyer L, 443.

Easy Little, 380; Eastburn J, 64; Edwards E E, 706; Edwards H D, 208; Ellison W J, 432; Elliott T, 64; Elwood P H 316 370; Ellingwood A D, 819; Ely L S, 432; English L G, 641; English S F, 558; Enos J B, 374 598; Ewing W L 930.

Falconer W T Mfg Co, 462; Farrar A B, 670; Fellows P N, 599; Ferguson J A, 229; Finch F N, 558; Fisher Mrs J R 783; Flanagan E T, 49 221 358; Fletcher J T, 98 459; Fletcher A P, 856; Foster O, 282 424 505 814; Foot J I, 670; Fooshe J D, 620 632 691; Fowls C, 175 309; Fowler E S 99; Fradenburg G E 229 279 783; France E, 15 166 303 319 379 381 540 760; Franklin B, 514; Frazier W C, 892; Free V, 235; Freeborn S I, 220 377; Funk H W, 431.

Gardiner C C, 369; Garnes F, 428; Gardener W R, 475; Gaylord D A, 632; Getaz A, 281; Geer L, 822; Gifford C E, 783; Gill M A, 670; Gill J D, 329; Gilstrap J G, 380 595; Gledhill J S, 633; Golden J A, 54 593 662; Goldsborough A T, 678 842; Goodhue G O, 463 526; Goe J H, 2 2; Gould I T, 413; Gray J W C, 931; Gray L W, 695 894; Gray W, 696; Gravenhorst C J H, 584; Greiner F, 547; Green J A, 158 367 378 473 478 540 654 709 735; Green E C, 106; Grills J J, 236; Gross G, 515 894; Guisinger J, 599.

Hall Mrs F T, 513; Hall W S, 872; Halstead E, 517; Hambaugh J M, 24 855; Hanbury T E, 210; Handle J, 55; Hann A, 420; Hankins F L 99; Hansen. E, 474; Harrison Mrs L, 170 275 329 362 515 564 631; Harrington J, 9; Harmer W, 382; Hart W S 332 431 618; Hart H F, 475; Harvey E S, 783; Hasty E E, 137 325 850; Hatch C A, 89 314 372 621; Haven H C, 633; Haviland W, 429; Hayes M R, 268 429; Heddon J, 218 654 807; Heivly W O, 598; Heselton G F, 213; Hess F E, 706; Hewes W G, 51 157; Hiatt E 2 8; Hicks C M, 769; Hicks J C, 516; Higley B G, 620; Hilton G E, 164; Hillard S, 878; Hildreth Bros & Segelken, 96; Hill J H, 100 2 8 327 414 432; Hillman L R, 475; Hoffman J, 315 367 406; Holmes N T, 375; Holmes Mrs H, 741; Hole Mrs E, 513; Holtermann R F, 208 582 769; Hoose T A, 476; Howell E D, 101 706 820; Howell C, 930; Howard F H, 931; Howard G P, 443; Hubbard J L, 379; Hubbard G K, 514; Huggett H S, 514; Hughes J S, 281; Hund F, 101 707; Hunt M H, 783; Hunter Mrs M, 513; Hutchinson E, 414 597; Hutchinson H L, 28 164.

Imlay W S, 100; Israel J P, 381 506 690 740.

Jacobs F, 707; James A A, 474; James G, 229 475; Jenkins J M, 461; Jessup T V, 781 811 891 920; Jones N J, 224 379 627; Jones H N, 98; Jones F B, 633 670; Johnson J W, 362 766 783; Johnson H N, 679; Johannsen J, 682; Judson L, 542.

Karr J, 443; Karnes Emma J, 432; Keck I, 280; Keith J J, 160; Keiler Helen A, 845; Kennedy J D, 431; Keeney E D, 431; Keyes Mrs O M, 414; Kibbie A R, 228; Kincade C H, 598; King W A, 12; King A J, 628 765; Klein G J, 335; Klum M S, 428; Knickerbocker G H, 486 548 629 715 793; Koch J, 432; Kratz Mrs W D, 780; Kuehne M R, 515; Kuebler C, 593; Kulp W W, 230.

Lacy F D, 25 101; Landreth D & Sons, 559 598; Langdon H P, 378 427; Langford S, 856; La Montagne J B 415; Langstroth L L, 806; Larch E C L, 380; Larrabee J H, 207 697 700 742; Larrabee W G, 878; Lathrop H, 54 231 428; Lawing S S, 423 821; Laws W H, 232 670; Lawson A J, 211; Layman C E, 100; Leach W O, 805; Lee F, 557; Leit L, 281; Lindon H H, 582; Lindsey A W, 229; Lincoln L C, 821; Linswik Nelly, 274; Lillibridge J C, 783; Little W, 707; Livingston T W, 587; Looft C G, 419; Lohr T, 283; Lowe F D, 101; Lum W H, 443; Lucas D, 476; Luther H P, 229; Lyon J A, 476.

Mansperger H, 282; Manum A E, 16 85 121 281 302 408; March H A, 28; Marigold Maria, 630; Major J, 68; Markley J H, 659; Maskell T A, 414; Mason Dr A B, 58; Massie T K, 931; Martin W, 229; Matthews D W C, 859; Maxy R, 670; McCay A, 858; McCarty O, 633; McClurg J K 774; McClurg Mrs J K, 284; McCoy J J, 443 476; M Cord D A, 428; McDonnell R W, 728 814 919; McFarland F H, 327; McIntyre J F, 220 264 586 663 761 771; McKeever A C, 894; McKenzie J L, 380; McLendon W G, 632; McWilliams & Miller, 431; Mead E S, 598; Mellen A B, 597; Merchant J M, 550; Merriam & Brodie, 516; Meyers J P, 707; Miller H, 675; Miller G K, 126; Miller S E, 422 698; Miller R F, 432; Miller C C, 19 125 163 210 270 313 334 376 410 417 466 469 508 545 656 674 695 759 770 809 888 924 925 956; Mims G D, 476; Morgan E B, 514; Moore N V, 514; Moore H F, 622 916; Moore J P 706; Morrison S W, 262; Morrison J R, 430; Morrow J F, 745; Morse R, 432; Mullin J H & Son, 705; Munson E W, 135; Murray C H, 504 822; Murray J W, 219; Muth-Rasmussen W, 64;

Nash J A, 737; Naylor W F, 231; Nebel J & Son, 550 706 929; Newcomb J N, 226; Nichols T, 877; Nickell J G, 476; Nieman J F, 516; Nelson S, 9 9; Noble D, 462 504; Norton W H, 281.

Oberlitner T, 782; Olmstead I B, 641; Olmstead C, 423; Osburn A W, 366 770; Osborn W L, 22; Otis H G, 514.

Paddleford G, 820; Palmer E P, 379; Palmer G W, 670; Parker B, 892; Parker C F, 28; Parsons A A 560 598; Passage B, 68 891; Patterson H, 427; Patton J F, 679; Peabody C H, 99; Philo E W, 261; Pinney G, 380; Pratt E L, 810; Pratt J, 931; Pratt L, 931; Pollock E, 28; Pond E R, 561 705; Porter J W, 502 658; Purcell E J, 577.

Quinby C J, 560.

Rag dale M F 432; Rambler 11 93 122 168 212 280 306 329 380 472 588 670 693 730 816 842 882 913 950; Randall R H 101; Rapp J B 476; Rayburn L K 931; Reimeyer B 516; Reese J S 586 930; Rice B E 95; Rinehold Mrs H 631; Ripley J T 701 702; Robbins G F 260 357 542; Robinson C J 805; Robinson J 230; Robey L H 229; Rodgers G D 280; Rouse J W & Co 820; Rush W M 558; Russell W J 228; Ruth C R 670; Rutter J S 476; Ryan J 432.

Salisbury FA 120 334; Sandford E S 515; Sayar S 429; Schwerdtfeger H 230; Scotman B T 100; Scott H W 819; Seeling F H 682; Shaeffle E H 474; Shelton G B 22; Shepard Mrs M A 364; Shiber G 547 920; Shone J A 381; Shotwell M 227; Shuck S A 219 425; Shuman E 633; Sibree J T 892; Singleton D 173; Sion A 559 599; Smith B F 515; Smith Mrs E 857; Smith P W 2 9; Smylie J 821; Smith R E 891; Smith W L 871; Snelgrove A E 101; Snyder F L 220; Somerford T O 768; Somerford W W 223 782; Spracklen A W 743; Stachelhausen L 510 592; Steininger N 334; Staysa J C 432; Stebbins C A 232; Stehie R 560; Stenger Rev S 160; Stewart R W J 53 264; Stewart W T 214; Stone J A 334; Storm nth J Jr 418 679; Stow S M 275 512; Strawn Lydia 312; Stuart W 622.

Taylor B 305 663 727; Taylor R L 217 700; Taylor S W 821; Teel J F 670; Templin R L 476; Terry T B 507 543; Thompson M T; 599; Thomson W 707; Thornton C M 893; Timoney R E 380; Tinker Dr G L 215 261 374 470; Tittsworth Mrs W G 209 778; Titus Z O 604; Tobey R A 101; Todd J A 297; Tripp L J 429; Tyrell A C 59.

Utler J P 329; Utley S A 594.

Vandall B C 633; Van Petten J T 228; Varney J A 468.

Waldron A C 432; Walker B 916; Walker D 380; Walker J E 361 587; Wason W 414; Weaver A A 707; Weber J B 431; West Emily E 332; West M S 763; West N D 321; Whitaker E H 423; White A T 282; White J G 707; Whittenburg J D 227 509 894; Whiting E M 430; Whiting L C 430; Whitlock A N 97 476 931; Whiton I B 557; Whiton J B 229; Winder Mrs A B 631; Wilder H E 782; Winslow H B 64; Wiley B H 226; Wilkin R 282 431; Williams Libbie 100 513 857 894; Wilson Emma 10 88 161 276 330 415 468 511 553 594 675 741 779 857 927 961; Wilson J P H 231; Woodchopper 267; Woodham Elizabeth G 468; Woodhouse J M 557; Woodward A E 96; Wooll I A 55; Worsley W 604; Wright H R 284; Wright W S 265

Yoder E 329; Yoder Mrs Sarah E 443; Yates L 443; Young W W 281 431.